

the reasons for signs and symptoms rather than to be content with knowing that they exist. Recognizing that truth is not always easy to discover and that the quantity and quality of dependable evidences which have clinical applications produce changing patterns, the authors present the material in a manner which identifies precise methods by which they can be evaluated with accuracy and for definitive purposes.

The entire book is a valuable text and reference for medical students and for practicing physicians, whether they be general practitioners or specialists. Certain chapters are mentioned here as examples for the purpose of emphasizing this point. Those which cover the symptoms of pain or anesthesia are worth the price of the book. How does one evaluate pain quantitatively and qualitatively and by what formulae does he apply it to the diagnosis of disease? These chapters give sound advice on this subject.

The revised chapter on headache by the late Harold Wolff is a classic with which all physicians should be acquainted. The one which covers the common symptoms of nervousness and fatigue has unusual practical applications. In that a large proportion of patients have cardio-respiratory diseases, how does one suspect early cases and those which present equivocal signs and symptoms? What are the signs and symptoms which suggest abnormalities in nutrition and metabolism? Particularly, what are the evidences of imbalances in fluid and electrolytes? These are only a few of the questions which are answered within the respective chapters of the book.

Many books have been written for the purpose of relating pathologic physiology to clinical medicine but few if any have done it as well as this one.

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SYNOPSIS OF PATHOLOGY—Sixth Edition—W. A. D. Anderson, M.A., M.D., F.A.C.P., F.C.A.P., Professor of Pathology, University of Miami School of Medicine, Coral Gables, Florida; Director of Pathology Laboratories, Jackson Memorial Hospital, Miami, Florida. The C. V. Mosby Company, Saint Louis, 1964. 883 pages, \$9.75.

Dr. Anderson has again in this sixth edition of his well-known handbook demonstrated that it is possible to summarize and organize the vast body of information comprising "pathology" into a synopsis which is something more than a mere quiz compendium.

The arrangement of this present edition is as previously and is the classical one of considering basic pathologic changes, such as inflammation and disturbances of circulation, followed by a discussion of specific infectious disease and disturbances of growth and nutrition, before systemic pathology arranged by organ systems is presented. A number of well organized and well thought out tables convey much information with great saving of space. Of course, there can never be unanimity as to what to include or omit in a work of this type but in general the selection has been made wisely and a surprising number of topics are covered very succinctly. Revision appears to be as current as is possible in a textbook.

The small size ($4\frac{1}{2}'' \times 7\frac{1}{4}''$) makes for convenient handling, the paper is of excellent quality, and the illustrations are well reproduced. This small book will be particularly useful to the clinician who must refresh his memory and reorient himself prior to examination for certification. The book continues to be popular with medical students but should be used by this group in conjunction with a more detailed reference text. Dental students and workers in the basic and nonclinical medical sciences will find it a helpful and readily understandable source of information. Certainly, many pathologists keep a copy at hand for quick review and easy reference.

RICHARD O. MYERS, M.D.

POSITIONING IN RADIOGRAPHY—Eighth Edition—K. C. Clark, M.B.E. Grune & Stratton, Inc., New York and London, 1964. 806 pages, \$35.00.

Approximately two years have elapsed since the publication of the last edition of this internationally accepted standard of radiographic technique. New positions and new methods have been added. New contrast agents are duly noted. Improved methods of cineradiography, macroradiography and microradiography are considered. The work is exhaustive, beautifully illustrated and well indexed. It is a pleasure to recommend it to radiologists and other clinicians interested in the highest quality of modern radiography.

L. H. GARLAND, M.D.

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ADVANCES IN BIOLOGY OF SKIN — Vol. 5 — Wound Healing—edited by William Montagna, University of Oregon Medical School, Portland, Oregon; Oregon Regional Primate Research Center, Beaverton, Ore.; and Rupert E. Billingham, Department of Anatomy, The Wistar Institute, Philadelphia, Pa. (Proceedings of the Brown University Symposium on the Biology of Skin, 1963.) A Pergamon Press Book, distributed by The Macmillan Company, New York, 1964. 254 pages, \$15.00.

The most recent addition to the series, *Advances in Biology of Skin*, makes exciting reading for all who are interested in the biology of wound healing. Studies in wound healing rank among the oldest problems in medicine. Although treatises on this subject are numerous, they are usually entirely descriptive and lack information concerning the nature of the healing process itself. In recent years there has been an increasing awareness of the problems involved and an accompanying revitalization of research efforts in the field.

In accordance with this new emphasis, contributors to this volume have virtually ignored the surgical aspects of wound repair and have concentrated on experiments designed to answer certain basic questions concerned with the origin, turnover and behavior of various tissue components following different kinds of injury. To this end a variety of studies have been described in which precise quantitative as well as qualitative answers were sought through the use of current isotope tracer techniques, tissue culture, electron microscope methods and other modern research tools.

Although studies on mammalian skin occupy the major space in this volume, a considerable amount of attention has been paid to other organs such as the cornea, hamster cheek pouch, esophagus and the specialized integument enveloping the deer antler, emphasizing the fact that "wound healing" is not necessarily "skin healing."

Equal time is devoted to consideration of epithelial and stromal problems. A. E. Needham has considered the evolutionary aspects of the problem. C. P. Lebond and his co-workers, as well as others, have dealt with the relationship of epithelial cell formation and cell migration. Several authors have considered the origin, synthesis and evolution of fibrous tissue in repair and the regeneration and repair of blood vessels in wounds.

Perhaps the most provocative chapter was written by Michael Abercrombie who has thoughtfully discussed some of the possible reactions between cells which may guide the process of healing skin. In outlining the various problems of initiation and control of cell movement, mobilization, relationships between cell movement and mitosis, limitation of population increase and other problems, Dr. Abercrombie has described the enormity of the problems at hand; the limits of our present knowledge and the complex interrelationships of cells and stroma and α -factors which must be defined before true understanding of the healing process can be achieved.